The Claims

1. (Currently amended) One or more computer-readable media having stored thereon a module of a transform module graph for processing audio data, the module including a plurality of instructions for execution in kernel-mode that, when executed in kernel-mode by one or more processors of a computer, causes the one or more processors to perform acts including:

receiving in the transform module graph a data packet including audio data; checking in the transform module graph, based at least in part on a channel group identified in a channel group portion of the data packet, whether the data packet corresponds to a set of one or more channel groups; and

operating on the data packet based at least in part on a result of the checking

forwarding the data packet to an allocator module for re-allocation of the memory space used by the data packet if the data packet corresponds to the set of one or more channel groups.

- 2. (Currently amended) One or more computer-readable media as recited in claim 1, wherein the set of <u>one or more</u> channel groups is received by the module via a set parameters interface.
 - 3. (Canceled).

4. (Currently amended) One or more computer-readable media <u>having</u> stored thereon a module of a transform module graph for processing audio data, the module including a plurality of instructions for execution in kernel-mode that, when executed in kernel-mode by one or more processors of a computer, causes the one or more processors to perform acts including: as recited in claim 1, wherein the operating comprises

receiving in the transform module graph a data packet including audio data;

checking in the transform module graph, based at least in part on a channel
group identified in a channel group portion of the data packet, whether the data
packet corresponds to a set of one or more channel groups; and

forwarding the data packet to an allocator module for re-allocation of the memory space used by the data packet if the data packet does not correspond to the set of <u>one or more</u> channel groups.

5. (Currently amended) One or more computer-readable media <u>having</u> stored thereon a module of a transform module graph for processing audio data, the module including a plurality of instructions for execution in kernel-mode that, when executed in kernel-mode by one or more processors of a computer, causes the one or more processors to perform acts including: as recited in claim 1, wherein the operating comprises

receiving in the transform module graph a data packet including audio data;

checking in the transform module graph, based at least in part on a channel group identified in a channel group portion of the data packet, whether the data packet corresponds to a set of one or more channel groups; and

changing a channel group identifier in the channel group portion of the data packet if the data packet corresponds to the set of <u>one or more</u> channel groups.

6. (Currently amended) One or more computer-readable media having stored thereon a module of a transform module graph for processing audio data, the module including a plurality of instructions for execution in kernel-mode that, when executed in kernel-mode by one or more processors of a computer, causes the one or more processors to perform acts including:

receiving in the transform module graph a data packet including audio data; checking in the transform module graph which channel group the data packet corresponds to, wherein the channel group the data packet corresponds to is identified in a channel group portion of the data packet;

identifying in the transform module graph, based at least in part on the channel group, a new channel group for the data packet; and

modifying <u>in the transform module graph</u> the data packet to include the new channel group.

- 7. (Original) One or more computer-readable media as recited in claim 6, wherein a set of channel group to new channel group mappings for use in the identifying is received by the module via a set parameters interface.
- 8. (Currently amended) One or more computer-readable media having stored thereon a module of a transform module graph for processing audio data, the module including a plurality of instructions for execution in kernel-mode that, when executed in kernel-mode by one or more processors of a computer, causes the one or more processors to perform acts including:

receiving in the transform module graph a data packet including audio data; checking in the transform module graph which channel the audio data corresponds to;

identifying in the transform module graph, based at least in part on the channel, a new channel for the data packet; and

modifying in the transform module graph the audio data to include the new channel.

9. (Original) One or more computer-readable media as recited in claim 8, wherein a set of channel to new channel mappings for use in the identifying is received by the module via a set parameters interface.

10. (Currently amended) One or more computer-readable media <u>having</u> stored thereon a module including a plurality of instructions for execution in <u>kernel-mode that</u>, when executed in <u>kernel-mode by one or more processors of a computer</u>, causes the one or more processors to perform acts including: as recited in claim 8, wherein the plurality of instructions further cause the one or more processors to perform acts including

receiving a data packet including audio data;

checking which channel the audio data corresponds to;

identifying, based at least in part on the channel, a new channel for the data packet;

modifying the audio data to include the new channel; and

maintaining a channel to new channel mapping, for use in the identifying, in which multiple channels can map to the same new channel and in which a single channel can map to multiple new channels.

11-29. (Canceled).

30. (New) A method implemented in a kernel-mode module of a transform module graph for processing audio data, the method comprising:

receiving in the transform module graph a data packet including audio data; checking in the transform module graph which channel the audio data corresponds to;

identifying in the transform module graph, based at least in part on the channel, a new channel for the data packet; and

modifying in the transform module graph the audio data to include the new channel.

- 31. (New) A method as recited in claim 30, wherein a set of channel to new channel mappings for use in the identifying is received by the module via a set parameters interface.
- 32. (New) A method as recited in claim 30, further comprising maintaining a channel to new channel mapping, for use in the identifying, in which multiple channels can map to the same new channel and in which a single channel can map to multiple new channels.
- 33. (New) A method implemented in a kernel-mode module of a transform module graph for processing audio data, the method comprising:

receiving in the transform module graph a data packet including audio data; checking in the transform module graph, based at least in part on a channel group identified in a channel group portion of the data packet, whether the data packet corresponds to a set of one or more channel groups; and

forwarding the data packet to an allocator module for re-allocation of the memory space used by the data packet if the data packet corresponds to the set of one or more channel groups.

- 34. (New) A method as recited in claim 33, wherein the set of one or more channel groups is received by the module via a set parameters interface.
 - 35. (New) A computing device comprising:

a processor; and

a memory, coupled to the processor, having instructions to implement a kernel-mode module of a transform module graph for processing audio data, the instructions causing the processor to perform acts comprising:

receiving in the transform module graph a data packet including audio data;

checking in the transform module graph, based at least in part on a channel group identified in a channel group portion of the data packet, whether the data packet corresponds to a set of one or more channel groups; and

forwarding the data packet to an allocator module for re-allocation of the memory space used by the data packet if the data packet does not correspond to the set of one or more channel groups.

- 36. (New) A computing device as recited in claim 35, wherein the set of one or more channel groups is received by the module via a set parameters interface.
- 37. (New) A system having a kernel-mode module of a transform module graph for processing audio data comprising:

means for receiving in the transform module graph a data packet including audio data;

means for checking in the transform module graph, based at least in part on a channel group identified in a channel group portion of the data packet, whether the data packet corresponds to a set of one or more channel groups; and

means for changing a channel group identifier in the channel group portion of the data packet if the data packet corresponds to the set of one or more channel groups.

- 38. (New) A system as recited in claim 37, wherein the set of one or more channel groups is received by the module via a set parameters interface.
- 39. (New) One or more computer-readable media as recited in claim 4, wherein the set of one or more channel groups is received by the module via a set parameters interface.

40. (New) One or more computer-readable media as recited in claim 5, wherein the set of one or more channel groups is received by the module via a set parameters interface.